What is claimed is:

1. A tire wheel assembly which includes a pneumatic tire, and a wheel provided with a rim fitted with the pneumatic tire, and forms a cavity portion between the pneumatic tire and the rim, wherein:

at least one tube, which has one end thereof closed while having a length of 55% to 110% of a reference length L₀ corresponding to one fourth of a cavity resonance wavelength, is provided so as to open to the cavity portion.

2. A tire wheel assembly, which includes a pneumatic tire, and a wheel provided with a rim fitted with the pneumatic tire, and forms a cavity portion between the pneumatic tire and the rim, wherein:

a plurality of tubes, each of which has one end thereof closed while having a length of 55% to 110% of a reference length L_0 corresponding to one fourth of a cavity resonance wavelength, are provided so as to open to the cavity portion; and

opening portions of these tubes are arranged in one arbitrary location on a circumference, or in two locations facing each other across a rotational axis of the tire.

- 3. The tire wheel assembly according to claim 2, wherein an angle with respect to the rotational axis of the tire, which defines a range of each of the locations where the opening portions of the tubes are arranged, is equal to or less than 35 degrees.
- 4. The tire wheel assembly according to any one of claims 1 to 3, wherein the length of the tube is set at 85% to 105% of the reference length L_0 .

- 5. The tire wheel assembly according to any one of claims 1 to 4, wherein a cross-sectional area of the tube is set at 0.2% to 10% of a cross-sectional area of the cavity portion.
- 6. The tire wheel assembly according to any one of claims 1 to 5, wherein an inside of the tube is filled with any one of a porous material and a non-woven fabric which have air permeability.
- 7. The tire wheel assembly according to any one of claims 1 to 6, wherein the tube is provided with the pneumatic tire.
- 8. The tire wheel assembly according to any one of claims 1 to 6, wherein the tube is provided with the wheel.